REV-00 BCA/12 /18

## BACHELOR OF COMPUTER APPLICATION Third Semester SOFTWARE ENGINEERING (BCA - 12)

2014/03

Duration: 3Hrs.	Full Marks: 70				
(PART-B: Descriptive)					
Duration: 2 hrs. 40 mins.	Marks: 50				
Answer the following questions (any five)	2×5=10				
a) What are the software characteristics?					
<i>b)</i> Explain software project planning?					
c) What are the characteristics of good design?					
d) What does software sizing mean?					
e) Differentiate between program and software?					
f) What is function point? Why it is used during software develop	oing?				
g) What is software reuse? Give two advantage of software reuse	?				
2. Answer the following questions (any five)	3×5=15				
<i>a)</i> What is validation and verification?					
b) Explain different type application of software?					
c) Explain the advantages of COCOMO model.					
d) Differentiate between System Analysis and System Design.					
e) Briefly explain different type of software reuse?					
f) What are the characteristics of good human interface design?					
g) Explain the various types of validation testing.					
3-Answer the following questions (any <i>five</i> )	5×5=25				
(Explain waterfall model with diagram?					
b) What is system testing? Explain.					
c) What are the difference between black box and white box testing	ng?				
d) RAD model.					
e) Spiral model.					
f) What is coupling? Explain the different module coupling.					
g) What is CASE tools? What are the advantages of CASE too	ls during software				
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(The figures in the margin indicate full marks for the questions)

## Duration: 20 minutes

## PART A- Objective Type

Answer the following mult	tiple choice question:			1×20=20
1. Software engineering app	broach is used to achiev	e:		
a) Better performance of	hardware.	b) Error fre	e software.	
c) Reusable software.		d) Quality	d) Quality software product.	
<b>2.</b> Which of the following d	loes not compose softw	are?		
a) Programs.		b) Hardwar	b) Hardware.	
- c) Data.			d) Documentation	
		,		
3. CASE stands for				
a) computer aided software engineering			b) computer add software engineering	
c) Computer aided softwa	are engineer	d) none of	d) none of the above	
4. If requirements are freque	ently changing, which n	nodel is best suited?		
a) Waterfall.		b) Spiral.		
c) Prototype.		d) RAD.		
5. The output of the requirer	nent analysis phase is			
a) SRS	b) document	c) contract	d) none of the above	
6. White box testing sometim	me called			
a) data flow testing	b) glass box testing	c) graph testing	d) functional testing	
.,	-) 88	-) 8p8	a) ranterioriar teoting	
7. Software product cost fac	tors include:			
a) Product complexity.	a) Product complexity.		b) Available time.	
c) Level of technology.		d) All the a	boye.	
•				
8. SDLC stands for			and the same of	
a) software design life cy			e development life cycle	
c) system design life cycl	e	d) none		
9. Water fall model is not su	itable for			
a) Small project	b) Accommodating cl	hange c) C	omplex project d	) none

Marks - 20

<ul><li>10. Software engineering aims at developing</li><li>a) reliable software</li><li>c) reliable and cost effective software</li></ul>		b) cost effective software d) none		
<ul><li>11. SRS stands for</li><li>a) systematic requirement specification</li><li>c) software requirement specification</li></ul>		<ul><li>b) system requirement specification</li><li>d) none</li></ul>		
<ul><li>12. DFD depicts</li><li>a) flow of data</li></ul>	b)flow of control	c) both a and b	d) none	
<ul><li><b>13.</b> A software is</li><li>a) superset of programs</li></ul>	b) subset of programs	c) set of programs	d)none	
<ul><li>14. Which is not a product metric</li><li>a) size</li></ul>	b) reliability	c) productivity	d) functionality	
<ul><li><b>15.</b> The ease with which a program</li><li>a) Testability.</li></ul>	is tested is known as: b) Stability.	c) Portability.	d) Scalability.	
<b>16.</b> The first level of software testin a) Integration testing.	ng starts with: b) Unit testing.	c) System testing.	d) Acceptance testing.	
<b>17.</b> In which testing approach, initia a) Incremental integration testing	•	egrated and then the entire prog b) Big bang testing.	gram is tested.	
c) Stress testing.	5.	d) Performance testing.		
<ul><li>18. Validation is</li><li>a) checking the product with resp</li><li>b) checking the product with resp</li><li>c) checking the product with resp</li><li>d) all of the above</li></ul>	pect to specification			
19. Lower CASE tools are used for:	:		$\bigcirc$	
<ul><li>a) Develop graphical user interfa</li><li>c) For generating test cases.</li></ul>	· · · · · · · · · · · · · · · · · · ·	converting decision tables to s developing use cases.	ource programs.	
20. The current standard tool for de	signing object oriented	systems is called:		
a) Unified Modelling Language.		och Modelling Language.		
c) Object Modelling Language.	d) Cla	ss. Responsibilities and Collab	orators Language	

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